

ABSTRACT OF THE DISCLOSURE

A magnetic recording and reading device having a transfer rate of not less than 50 MB/s includes a magnetic recording medium having an absolute value of normalized noise coefficient per recording density of not more than 2.5×10^{-8}

$(\mu\text{Vrms})(\text{inch})(\mu\text{m})^{0.5}/(\mu\text{Vpp})$, and magnetic head which is mounted on an integrated circuit suspension so that a total inductance is reduced to be not more than 65nH and having a magnetic core which is not more than 35 μm of length, wherein a part of the magnetic core being formed by a magnetic film having a resistivity exceeding at least 50 $\mu\Omega\text{cm}$ or by a multilayer film consisting of a magnetic film and an insulating film. The device also includes a fast R/W-IC having a line width of not more than 0.35 μm which is installed in a position within 2 cm from a rear end of the magnetic head.